















The valve body of the **RIEGER Aseptic Valves** is hermetically sealed against environment and this guarantees complete security for your liquid products. The design of the valve bodies eliminating dead space and the optimized surfaces make them a prerequisite for sterile process engineering. Due to the building block system the change from aseptic to hygienic, from "air to open" to "air to close", from liquid to fibrous and granular media is possible without problems. Also the installation dimensions can be customized to the givens in place.

Under special conditions such as high sterilization temperatures, RIEGER Aseptic valves fulfill all demands on operational security and reliable function.

Your advantages

Design	solid valve bod no dead space completely drai many built-in po	y s ining ositions p		
Product safety	hermetically se no dome or sur	aled agai np in proc	nst environment duct space	
Maintenance	change of seals less standing ti optimum cleans screwed-in bell	s without mes ability ows	special tools	BE Demontage Roderspermuny beaching
Efficiency	long life of the l standard seals low spare part	PTFE bell	lows	
Technical Data				P-2474-24
Material	in product cont optional non product co	act ntact	1.4404/AISI316L 1.4435/AISI316L 1.4301/AISI304	<u>Ú</u>
Seals	PTFE bellows metal bellows O-rings/seals		PTFE 1.4571/1.4404 EPDM	
Temperatures	maximum	EPDM	PTFE	16 2000
	operating temperature sterilizing temperature	130 °C* (266 °F) 150 °C* (300 °F)	121 °C* (250 °F) 135 °C* (275 °F) short-time (approx. 20 min)	
Operating pressure	closing pressur but:	e	max. 6 bar (87 psi)	
	change-over v	valves	see catalog pages	3-A versions available
	for tank type N actuator contro pressure	N7 I air	min 6 bar (87 psi)- max.10 bar (145 psi)	see 3-A certificate on website <u>www.rr-rieger.de</u>
Surfaces	in product contact optional		Ra <= 0,8 µm (32 µin) electro polished, other surfaces upon request	
	no product con	tact	Ra <=1,6 μm (63 μin)	
Connections Standard pipes	DIN 11850-R2 O.D. tube (DIN DIN EN ISO 11	(DIN 118 11866 C) 27 (DIN 1	66 A)) I1866-B)	

* dependent upon operating conditions





Aseptic Change Over Valve Type LL

manual with crank handle - 3 ports - one-piece valve body

		DN	Pipe	Α	В	F	R	н	Stroke	kg
	R									
	100 100	25	29 x 1,5	50	50	55	73	360	18	4,2
1 1 and	t 💼 🚽	40	41 x 1,5	60	60	65	73	385	18	6,3
	trok	50	53 x 1,5	80	70	77	90	475	22	9,9
	65	70 x 2	100	80	95	90	510	25	12,7	
-	-	80	85 x 2	125	90	110	90	555	33	17,8
-		100	104 x 2	150	100	129	90	595	35	23,4
		1"	25,4 x 1,65		In c	ase of	order		18	4,2
		- 1 1/2"	38,1 x 1,65	2	you ge	t a 3D	step fi	le	18	6,3
	DN	2"	50,8 x 1,65	for	for your design department.				22	9,9
		2 1/2"	63,5 x 1,65	Cl	Closing pressure of 6 bar			25	12,7	
		3"	76,2 x 1,65	C	only wit	th flow	directi	on	33	17,8
		4"	101,6 x 2,11	into	middle	e port –	- see a	arrow.	35	23,4

Aseptic Change Over Valve Type LL

pneumatic - air to open-spring to close NC - 3 ports - one-piece valve body



Closing pressure of 6 bar is only ensured with flow direction into middle port with control air pressure of at least 6 bar (max. 10 bar) – see arrow.



Aseptic Change Over Valve Type TL

pneumatic - air to open-spring to close NC - 4 ports - one-piece valve body

		DN	Pipe	Α	В	F	D	н	Stroke	kg
atroke		25	29 x 1,5	50	50	55	90	361	18	6,2
	E	40	41 x 1,5	60	60	65	90	387	18	7,2
	-	50	53 x 1,5	80	70	77	110	459	22	14,6
		65	70 x 2	100	80	95	133	539	25	17,4
	E E	80	85 x 2	125	90	110	172	630	33	27,5
		100	104 x 2	150	100	129	172	665	35	35,2
		1"	25,4 x 1,65		In case of order					6,2
	9	1 1/2"	38,1 x 1,65		you get a 3D step file					7,2
	DN_	2"	50,8 x 1,65	for	your c	lesign	depart	ment.	22	14,6
	- <u></u>	2 1/2"	63,5 x 1,65	Drawing shows NC -					25	17,4
		3"	76,2 x 1,65		NC =	lf air fa	uils, Iow	ver	33	27,5
		4"	101,6x2,11		ро	rt is cl	osed.		35	35,2

Closing pressure of 6 bar is only ensured with flow direction into middle port with control air pressure of at least 6 bar (max. 10 bar) – see arrow.







The **RIEGER Aseptic Mix Proof Valve N7** ensures the reliable separation of process lines for liquid products by means of the SIP capable leakage space as well in type "piping" as in type "tank". CIP/SIP valves control the steam inlet and outlet in the leakage space.

The outstanding aseptic properties are achieved by hermetic sealing from the environment. A temperature surveyance in the leakage chamber is available upon request.

It is important to note, that the full spring force is applied as well in rest position as when rinsing the valve.

Your advantages

Design	one-piece valve body made from solid bar short design less welding seams few seals in product area
Absolute product protection	safe media separation by leakage space controlled leakage chamber both valve disks are liftable separately
Serviceable maintenance	change of seals without special tools less standing time easy cleaning
Efficiency	long life of the PTFE bellows low maintenance costs with brackets for proximity switches on main actuator



for piping

Technical Data

Material	in product contact optional no product contact	1.4404/AISI316L 1.4435/AISI316L 1.4301/AISI304
Seals	bellows	PTFE
according to FDA	O-rings	EPDM







Aseptic Mix Proof Valve N7 for Piping

scheme



aseptic process valve





Aseptic Mix Proof Valve N7 for Piping

Dimensions



X = dimension for clusters (according to customer's request)

DIN	Α	В	С	D	Е	ØF	(X)	Y	Z	Stroke	DN1	kg
40(41x1,5)	135	72	605	240	75	133	(110)	80	60	16	50	28
50(53x1,5)	150	76	635	245	81	133	(120)	92	70	20	65	29
65(70x2)	170	83	715	255	92	168	(135)	96	80	22	80	31
80(85x2)	180	89	750	265	100	168	(150)	118	90	27	100	

CIP-SIP valves with weld end DN 15 DIN (19 x 1,5)





Aseptic Mix Proof Valve N7 as Bottom Seat Valve

dimensions



X = dimension for clusters upon customer's request

DIN	Α	В	D	D1	D2	Е	S	Х	Y	kg
40(41x1,5)	150	73	236	133	125	75	19 x 1,5	110	80	28
50(53x1,5)	166	75	242	146	138	81	19 x 1,5	122	92	29
65(70x2)	182	78	246	173	165	92	19 x 1,5	126	96	31
80(85x2)				up	on reque	est				

Please note: suitable for maximum product pressure of 4 bar





The **RIEGER** Aseptic Mix Proof Valve N13 combines the advantages of the hygienic mix proof valve N1 proven of long standing with those of the aseptic process valve N7.

The bellows hermetically seal against the environment. The double valve seat separates both process lines so that the mixing of two liquids is completely prevented.

The new construction of the bellows renounces of CIP-valves and a leakage chamber and so allows a very dense valve.

The lower as well as the upper valve disk may be lifted separately. The valve may be cleaned and sterilized in "open" and in "closed"-position.

Your advantages

Design	one-piece valve body from solid bar absolutely dead space free completely draining less seams in product area leakage-free liftable available as tank bottom seat version
Absolute product safety	water hammer safe up to 20 bar against mixing of cleaning agent with product by means of double valve seat locking mechanism rinsable and sterilizable vacuum-safe
Maintenace	Actuator can be dismantled upwards completely in one piece.
Efficiency	long life of the PTFE-bellows lows maintenance costs





patented

TYPE EL - CLASS I

		EPDM	PTFE
Temperatures maximum	operating temperature sterilizing temperature	130 °C* (266 °F) 150 °C* (300 °F)	121 °C* (250 °F) 135 °C* (275 °F) short-time (ca. 20 min)
Operating pressure	closing pressure	max. 6 bar (87 psi)	
	control air pressu	min 6 bar (87 psi) - max. 10 bar (145 psi)	
Surfaces	in product contact non product contact	act	Ra <= 0,8 μm Ra <=1,6 μm

* dependent upon operating conditions





Aseptic Mix Proof Valve N13

schemes







Aseptic Mix Proof Valve N13.04.400

dimensions



X = dimension for clusters (according to customer's request)

DIN	Α	В	н	F	Y	Stroke	kg
							-
40	125	73	444	111	137	32	
50	125	79	438	111	104	32	33
65	138	94	480	138	106	36	33
80	145,5	94	473	138	125	36	33
100	137	103	505	168	150	36	

DN 50 - DN 80: Valve body DN 80

DN 50 and DN 65 with excentrical reducers DN 80/DN 50 resp. DN 80/DN 65

regam instruments

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